


FORM PTO-1449	Atty. Docket No.: M61.12-0592	Appl. No.: 10/780,177
 <p>LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT</p>	First Named Inventor:	
	Jian Wu et al.	
	Filing Date	Group Art:
	February 16, 2004	2631

U.S. PATENT DOCUMENTS

Examiner Initial	Document No.	Date	Name	Class	Sub Class	Filing Date If Appropriate
/S.G./	AA	09/999,576	11/15/01	Attias et al.		
/S.G./	AB	5,148,489	09/1992	Erell et al.	704	226
/S.G./	AC	5,924,065	07/1999	Eberman et al.	704	231
/S.G./	AD	6,026,359	02/2000	Yamaguchi et al.	704	256
/S.G./	AE	6,067,517	05/2000	Bahl et al.	704	256
/S.G./	AF	6,188,976	02/2001	Ramaswamy et al.	704	9
/S.G./	AG	6,202,047	03/2001	Ephraim et al.	704	256
/S.G./	AH	6,633,842	10/2003	Gong, Yifan	704	233
/S.G./	AI	10/772,937	11/26/03	Kristjansson et al.		
/S.G./	AJ	09/812,524	03/20/01	Acero et al.		

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

/S.G./	AK	Agarwal, A., et al., "Two-Stage Mel-Warped Wiener Filter for Robust Speech Recognition," Proceeding IEEE-ASRU Workshop 1999.				
/S.G./	AL	Deng, L., et al., "Recursive Noise Estimation Using Iterative Stochastic Approximation for Stereo-Based Robust Speech Recognition," Proceeding IEEE ASRU Workshop 2001, Italy.				
/S.G./	AM	Deng, L., et al., "Incremental Bayes Learning with Prior Evolution for Tracking Nonstationary Noise Statistics from Noisy Speech Data," Proceeding IEEE ICASSP 2003, Hong Kong, China.				
/S.G./	AN	Frey, B.J., et al., "ALGONQUIN: Iterating Laplace's Method to Remove Multiple Types of Acoustic Distortion for Robust Speech Recognition," Proceeding Eurospeech 2001.				
/S.G./	AO	Kristjansson, T., et al., "Joint Estimation of Noise and Channel Distortion in a Generalized EM Framework," Proceeding IEEE ASRU Workshop 2001, Italy.				
/S.G./	AP	Sanka, A., et al., "A Maximum-Likelihood Approach to Stochastic Matching for Robust Speech Recognition," IEEE Translation on Speech and Audio Processing, Vol. 4, no. 3, pages 190-202, 1996.				
/S.G./	AQ	Y. Ephraim, "Gain-Adaptive HMMs for Recognition of Clean and Noisy Speech," IEEE Trans, Signal Processing, vol. 40, June 1992, pp. 1303-1316.				

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DATE CONSIDERED: 10/06/2008

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/S.G./	AR	A.P. Varga and R.K. Moore, "Hidden Markov Model Decomposition of Speech and Noise," in Proceedings of the International Conference on Acoustics, Speech and Signal Processing, IEEE Press., pp. 845-848 (1990).
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/S.G./	AY	P. Moreno, "Speech Recognition in Noisy Environments," Carnegie Mellon University, Pittsburgh, PA, pp. 1-130 (1996).
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/S.G./	BA	Y. Ephraim, "A Bayesian Estimation Approach for Speech Enhancement Using Hidden Markov Models," IEEE Transactions on Signal Processing, Vol. 40, No. 4, pp. 725-735 (April 1992).
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/S.G./	BC	A. Acero, "Acoustical and Environmental Robustness in Automatic Speech Recognition," Department of Electrical and Computer Engineering, pp. 1-141 (September 13, 1990).
/S.G./	BD	Frey, Variational Inference and Learning in Graphical Models (undated).

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/S.G./	BE	R. Neal and G. Hinton, "A View of the EM Algorithm that Justifies Incremental, Sparse, and Other Variants," pp. 1-14 (1993).
/S.G./	BF	J. Lim and A. Oppenheim, "All-Pole Modeling of Degraded Speech," IEEE Transactions on Acoustics, Speech, and Signal Processing, Vol. ASSP-26, No. 3, pp. 197-210 (June 1978).
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/S.G./	BH	J. Tabrikian, S. Dubnov, and Y. Dickalov, "Speech Enhancement by Harmonic Modeling Via Map Pitch Tracking," In Proc. of ICASSP, pp. 549-552, 2002.
/S.G./	BI	B.J. Frey, T. Kristjansson, L. Deng, and A. Acero, "Learning Dynamic Noise Models from Noisy Speech for Robust Speech Recognition," Advances in Neural Information Processing (NIPS), 2001.
/S.G./	BJ	T. Kristjansson, Speech Recognition in Adverse Environments: A Probabilistic Approach, Ph.D. thesis, University of Waterloo, Ontario, Canada, April 2002.

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